

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV091525\
 Data File : VV039087.D
 Acq On : 15 Sep 2025 18:12
 Operator : SY/MD
 Sample : Q3084-04
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 16 02:26:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR091525WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Sep 16 02:04:20 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	5.535	114	406065	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.776	117	416290	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.175	152	228855	5.000	ug/L	# 0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.291	65	147193	4.596	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.000%
7) Chloroethane-d5	1.545	69	127833	4.606	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.200%
11) 1,1-Dichloroethene-d2	2.072	65	67959	4.454	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	89.000%
20) 2-Butanone-d5	3.786	46	253018	53.192	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.380%
24) Chloroform-d	4.256	84	289460	4.654	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.000%
26) 1,2-Dichloroethane-d4	4.947	65	128169	4.893	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.800%
32) Benzene-d6	4.963	84	543871	4.775	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.400%
36) 1,2-Dichloropropane-d6	5.989	67	166142	4.880	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.600%
41) Toluene-d8	7.239	98	418705	4.106	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.200%
43) trans-1,3-Dichloroprop...	7.555	79	52734	4.234	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.600%
46) 2-Hexanone-d5	8.014	63	181787	45.089	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	90.180%
56) 1,1,2,2-Tetrachloroeth...	10.143	84	115654	4.758	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.200%
66) 1,2-Dichlorobenzene-d4	11.548	152	152542	4.141	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	82.800%

Target Compounds

						Qvalue
5) Vinyl chloride	1.298	62	332857	7.486	ug/L #	73
8) Chloroethane	1.298	64	119796	4.324	ug/L #	49
12) 1,1-Dichloroethene	2.082	96	42368	1.271	ug/L #	1
15) Methyl Acetate	2.452	43	4509	0.449	ug/L #	54
17) Methyl tert-butyl Ether	2.712	73	34202	0.597	ug/L #	84
18) trans-1,2-Dichloroethene	2.706	96	210242	6.195	ug/L	94
19) 1,1-Dichloroethane	3.121	63	1079139	17.337	ug/L	98
22) cis-1,2-Dichloroethene	3.815	96	5391027	162.758	ug/L	99
27) 1,2-Dichloroethane	5.050	62	84491	2.553	ug/L	97
33) Benzene	5.014	78	339000	2.587	ug/L	100
34) Trichloroethene	5.847	95	19832	0.561	ug/L	88
35) Methylcyclohexane	6.047	83	10849	0.196	ug/L	96
37) 1,2-Dichloropropane	5.986	63	18352	0.540	ug/L #	89
42) Toluene	7.326	91	32695	0.239	ug/L	97
51) Chlorobenzene	8.802	112	2292643	26.010	ug/L	100
52) Ethylbenzene	8.953	91	11242	0.080	ug/L	98
53) m,p-Xylene	9.088	106	3946	0.072	ug/L	80
61) 1,2,3-Trichloropropane	11.104	75	773641	40.131	ug/L #	49
64) 1,3-Dichlorobenzene	11.104	146	2571208	34.422	ug/L	97

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Tue Sep 16 02:04:20 2025
Response via : Initial Calibration

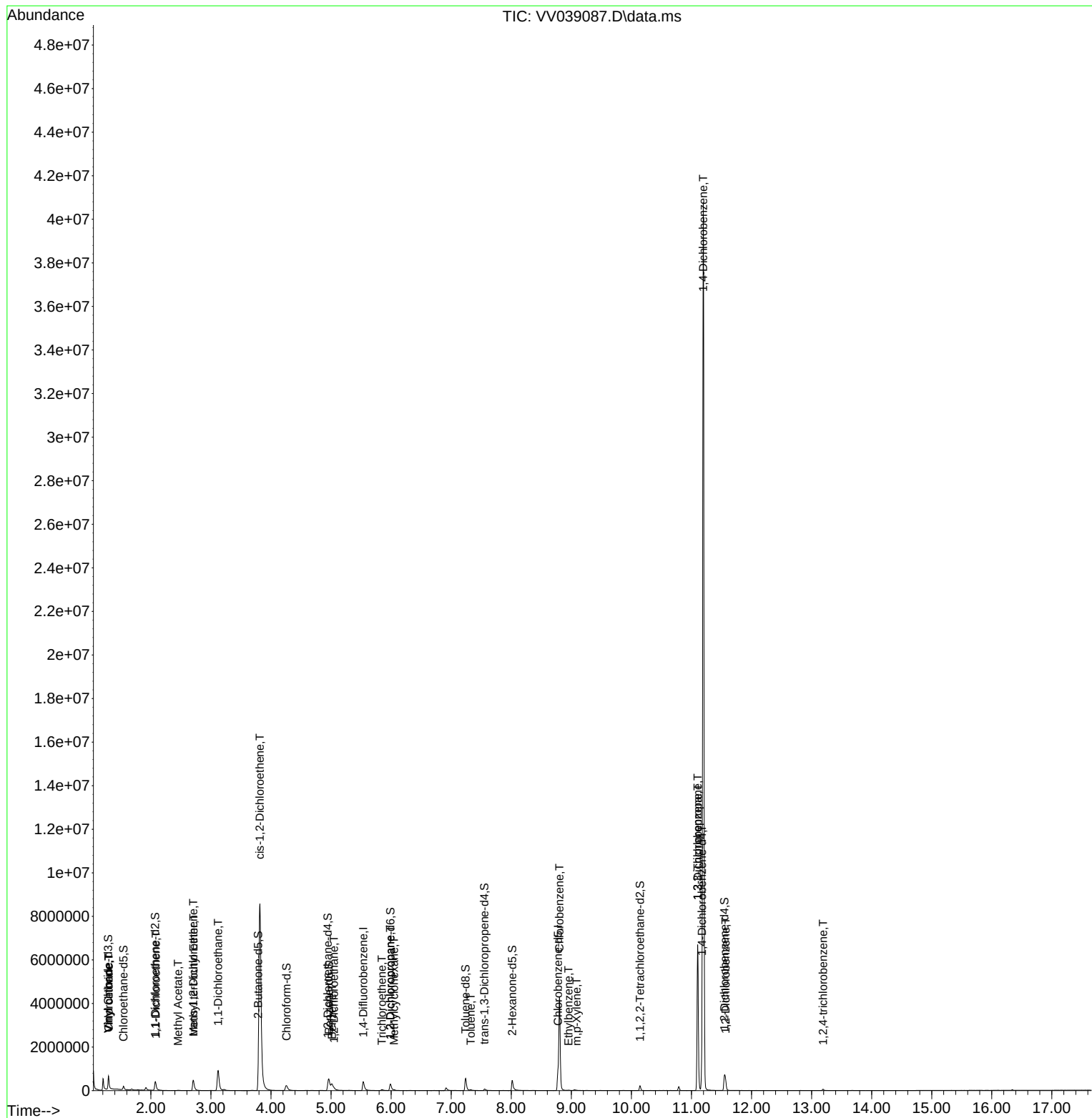
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,4-Dichlorobenzene	11.194	146	14266022	184.619	ug/L	86
67) 1,2-Dichlorobenzene	11.567	146	186829	2.823	ug/L	99
70) 1,2,4-trichlorobenzene	13.191	180	19899	0.540	ug/L	96

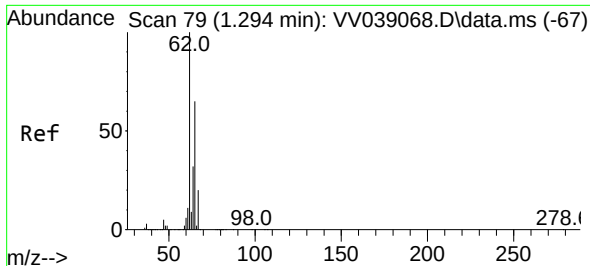
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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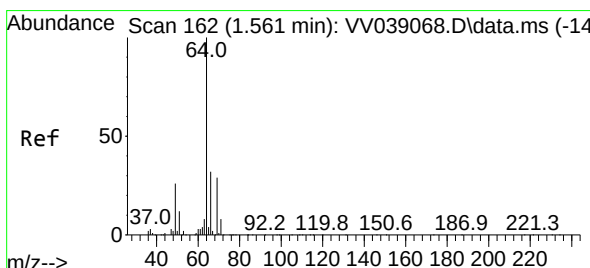
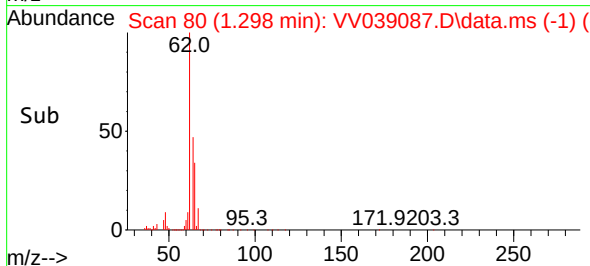
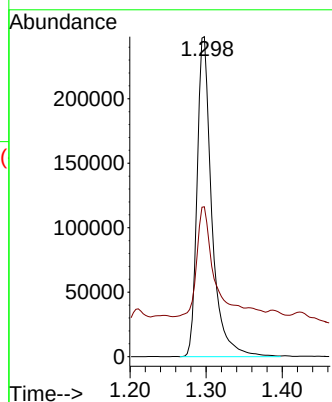
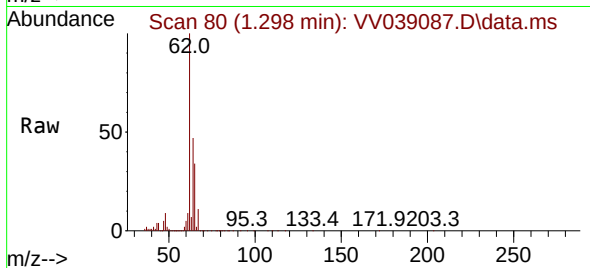




#5
 Vinyl chloride
 Concen: 7.486 ug/L
 RT: 1.298 min Scan# 80
 Delta R.T. 0.003 min
 Lab File: VV039087.D
 Acq: 15 Sep 2025 18:12

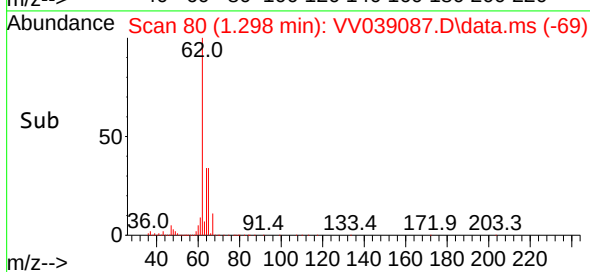
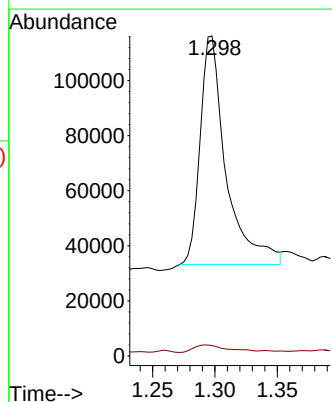
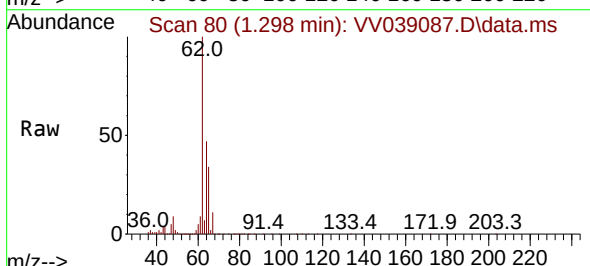
Instrument :
 MSVOA_V
 ClientSampleId :

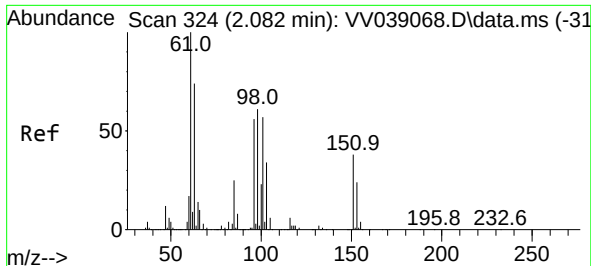
Tgt Ion: 62 Resp: 332857
 Ion Ratio Lower Upper
 62 100
 64 46.8 22.4 41.6#



#8
 Chloroethane
 Concen: 4.324 ug/L
 RT: 1.298 min Scan# 80
 Delta R.T. -0.263 min
 Lab File: VV039087.D
 Acq: 15 Sep 2025 18:12

Tgt Ion: 64 Resp: 119796
 Ion Ratio Lower Upper
 64 100
 66 3.2 22.3 41.5#

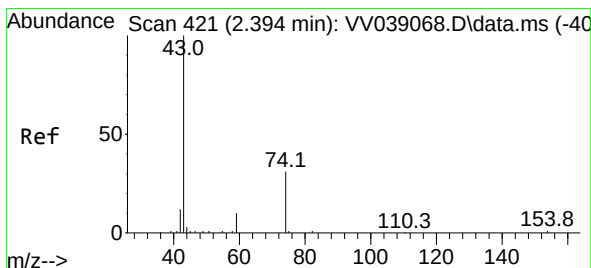
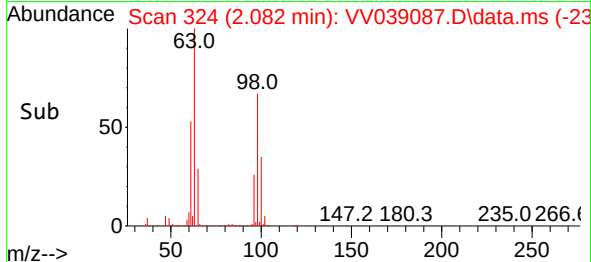
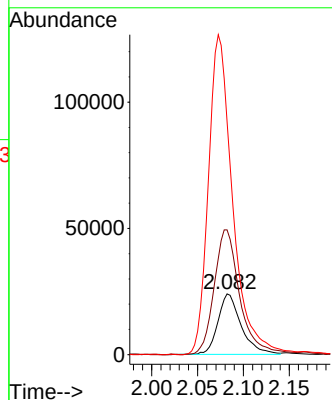
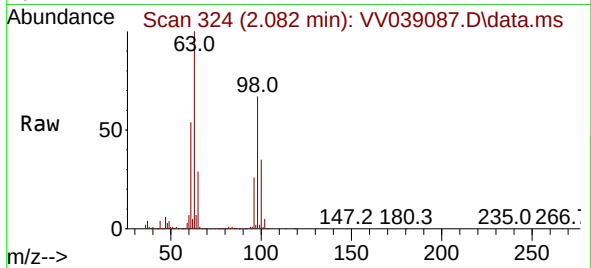




#12
1,1-Dichloroethene
Concen: 1.271 ug/L
RT: 2.082 min Scan# 31
Delta R.T. 0.000 min
Lab File: VV039087.D
Acq: 15 Sep 2025 18:12

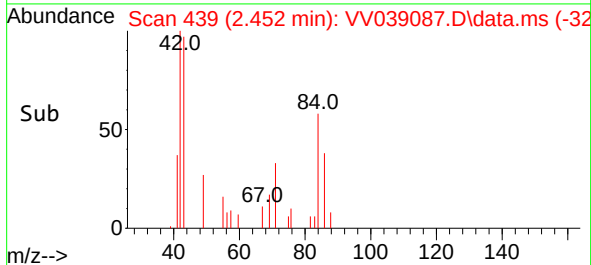
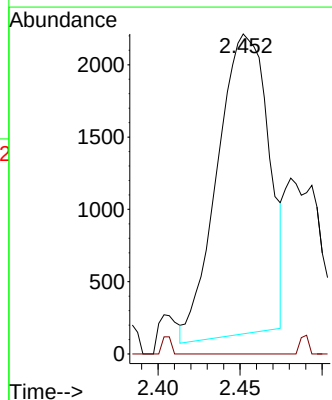
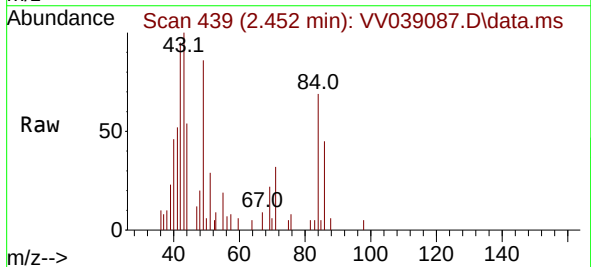
Instrument :
MSVOA_V
ClientSampleId :

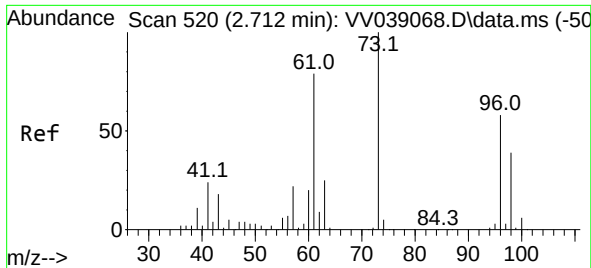
Tgt Ion: 96 Resp: 42368
Ion Ratio Lower Upper
96 100
61 205.4 124.7 231.7
63 383.5 93.5 173.7#



#15
Methyl Acetate
Concen: 0.449 ug/L
RT: 2.452 min Scan# 439
Delta R.T. 0.058 min
Lab File: VV039087.D
Acq: 15 Sep 2025 18:12

Tgt Ion: 43 Resp: 4509
Ion Ratio Lower Upper
43 100
74 1.0 18.8 28.2#





#17

Methyl tert-butyl Ether

Concen: 0.597 ug/L

RT: 2.712 min Scan# 51

Delta R.T. 0.000 min

Lab File: VV039087.D

Acq: 15 Sep 2025 18:12

Instrument :

MSVOA_V

ClientSampleId :

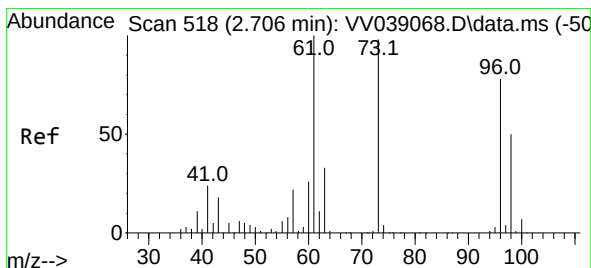
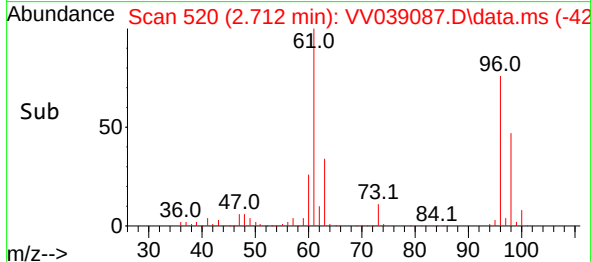
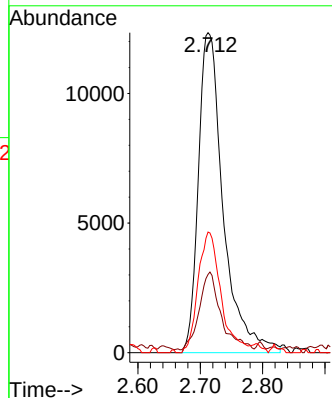
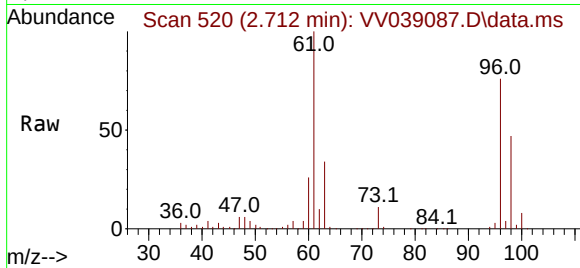
Tgt Ion: 73 Resp: 34202

Ion Ratio Lower Upper

73 100

43 21.1 14.7 22.1

57 34.4 18.0 27.0#



#18

trans-1,2-Dichloroethene

Concen: 6.195 ug/L

RT: 2.706 min Scan# 518

Delta R.T. 0.000 min

Lab File: VV039087.D

Acq: 15 Sep 2025 18:12

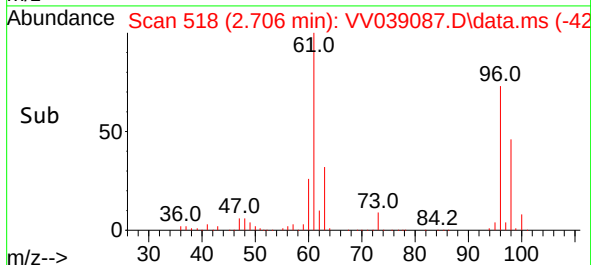
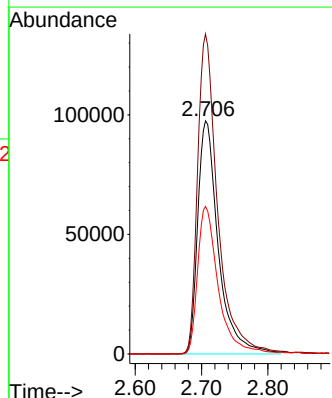
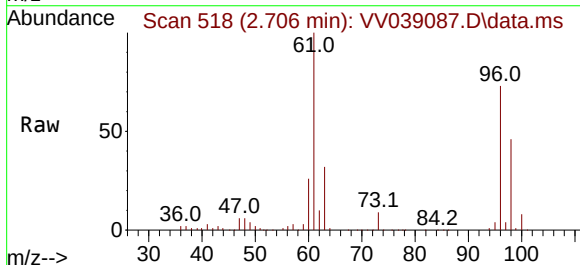
Tgt Ion: 96 Resp: 210242

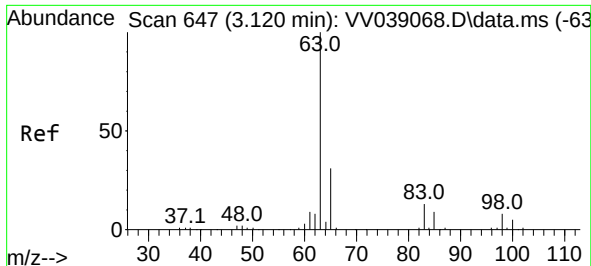
Ion Ratio Lower Upper

96 100

61 137.2 89.7 166.5

98 63.3 44.9 83.3





#19

1,1-Dichloroethane

Concen: 17.337 ug/L

RT: 3.121 min Scan# 64

Delta R.T. 0.000 min

Lab File: VV039087.D

Acq: 15 Sep 2025 18:12

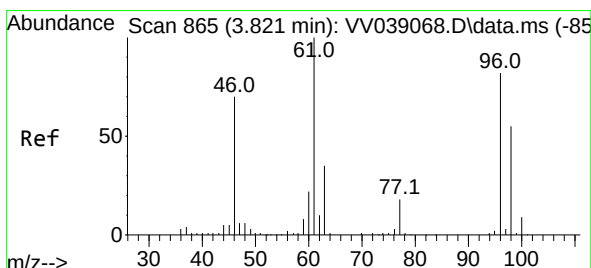
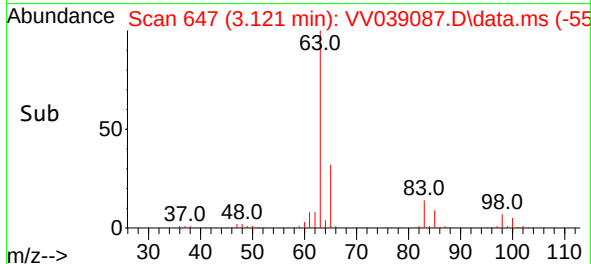
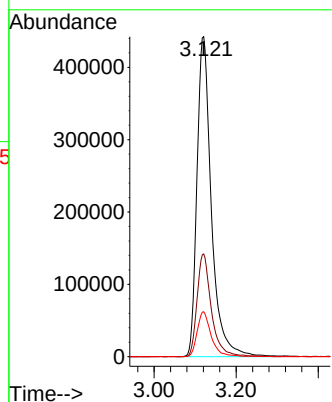
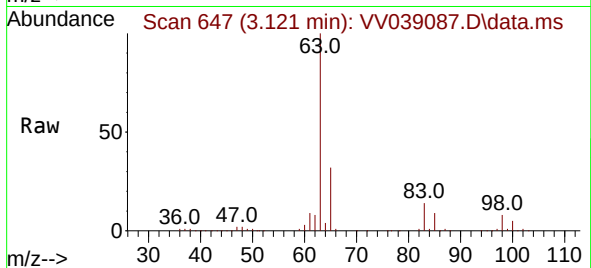
Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 63 Resp: 1079139

Ion	Ratio	Lower	Upper
63	100		
65	32.1	21.5	39.9
83	14.0	9.2	17.2



#22

cis-1,2-Dichloroethene

Concen: 162.758 ug/L

RT: 3.815 min Scan# 863

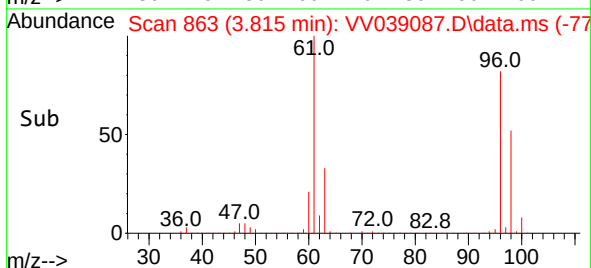
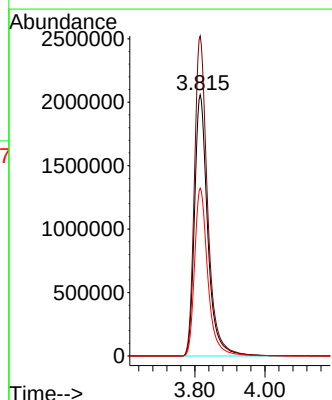
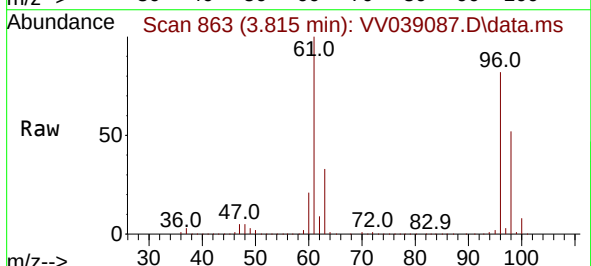
Delta R.T. -0.006 min

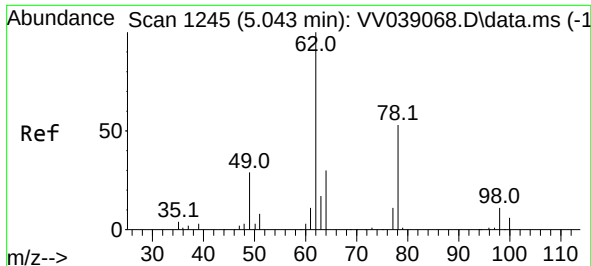
Lab File: VV039087.D

Acq: 15 Sep 2025 18:12

Tgt Ion: 96 Resp: 5391027

Ion	Ratio	Lower	Upper
96	100		
61	122.5	85.4	158.6
98	64.3	46.6	86.6





#27

1,2-Dichloroethane

Concen: 2.553 ug/L

RT: 5.050 min Scan# 1247

Delta R.T. 0.007 min

Lab File: VV039087.D

Acq: 15 Sep 2025 18:12

Instrument :

MSVOA_V

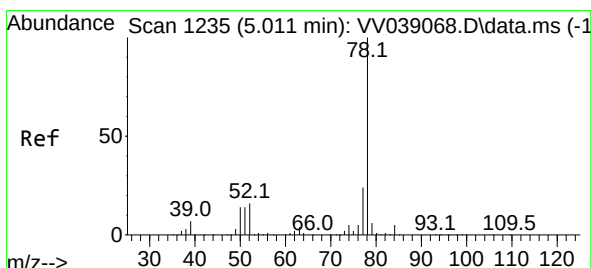
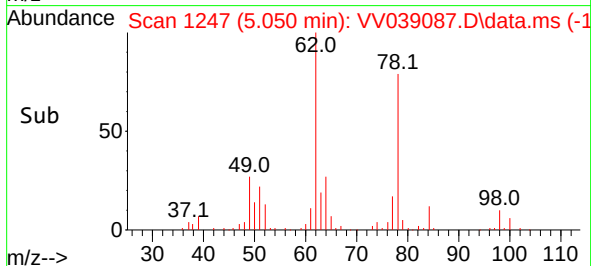
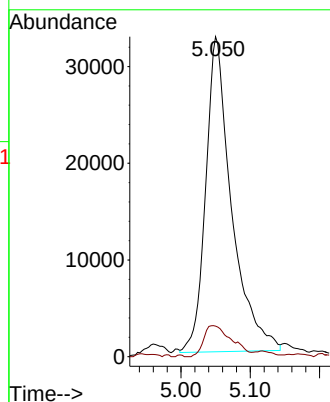
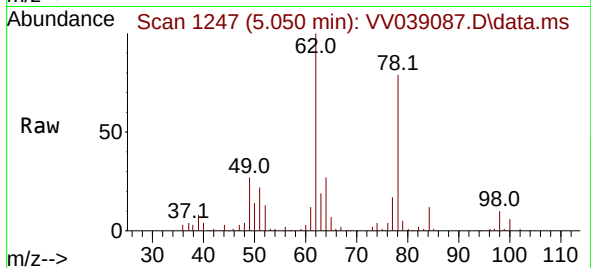
ClientSampleId :

Tgt Ion: 62 Resp: 84491

Ion Ratio Lower Upper

62 100

98 9.6 8.6 12.8



#33

Benzene

Concen: 2.587 ug/L

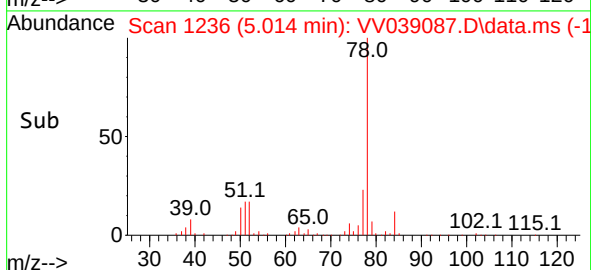
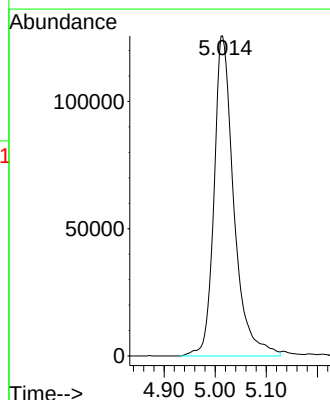
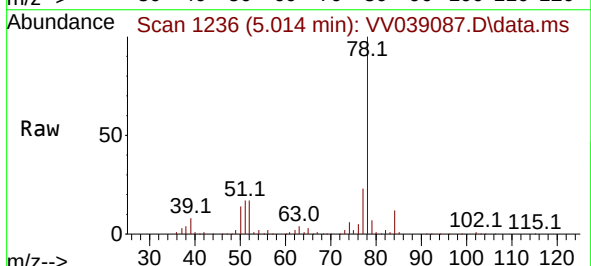
RT: 5.014 min Scan# 1236

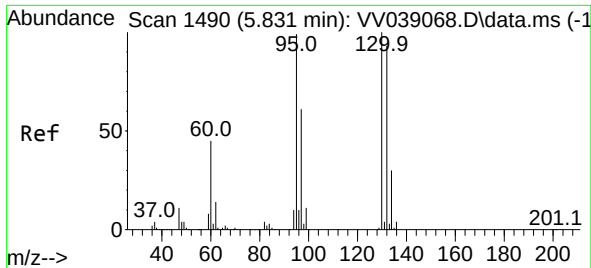
Delta R.T. 0.003 min

Lab File: VV039087.D

Acq: 15 Sep 2025 18:12

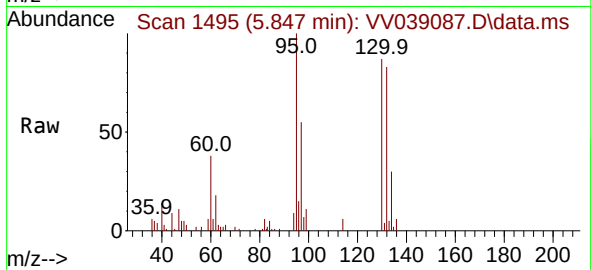
Tgt Ion: 78 Resp: 339000





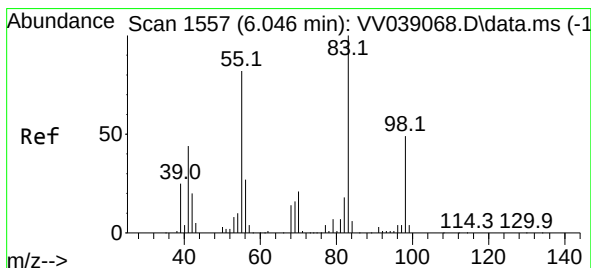
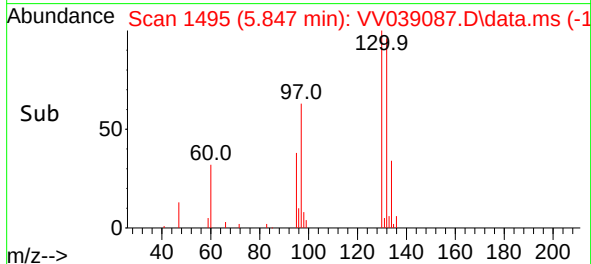
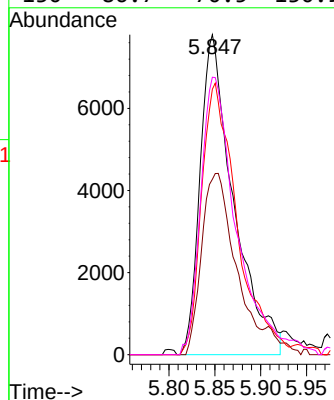
#34
 Trichloroethene
 Concen: 0.561 ug/L
 RT: 5.847 min Scan# 1490
 Delta R.T. 0.016 min
 Lab File: VV039087.D
 Acq: 15 Sep 2025 18:12

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion: 95 Resp: 19832

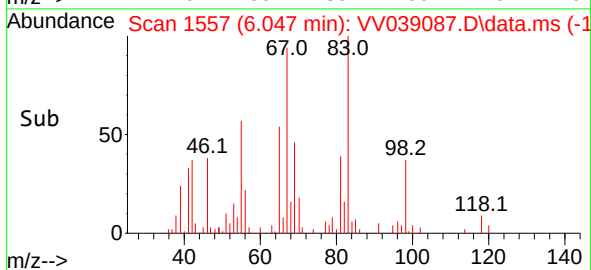
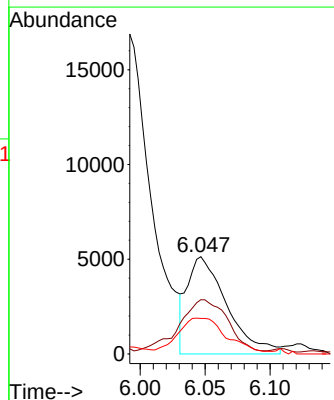
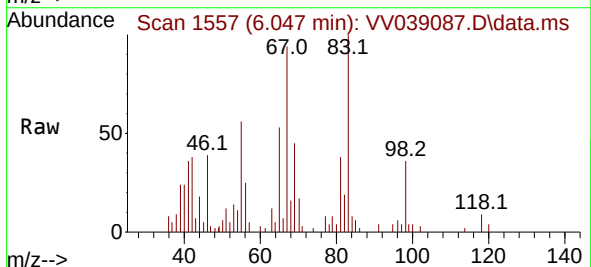
Ion	Ratio	Lower	Upper
95	100		
97	54.8	43.3	80.5
132	83.0	65.5	121.7
130	86.7	70.5	130.9

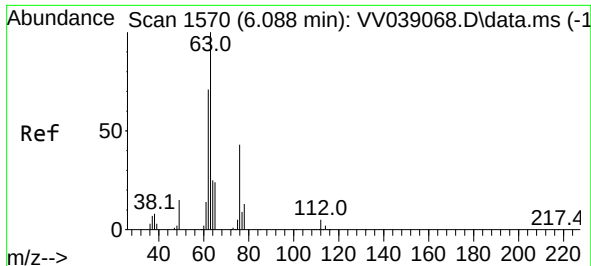


#35
 Methylcyclohexane
 Concen: 0.196 ug/L
 RT: 6.047 min Scan# 1557
 Delta R.T. 0.000 min
 Lab File: VV039087.D
 Acq: 15 Sep 2025 18:12

Tgt Ion: 83 Resp: 10849

Ion	Ratio	Lower	Upper
83	100		
55	72.1	61.4	92.2
98	46.1	38.2	57.4





#37

1,2-Dichloropropane

Concen: 0.540 ug/L

RT: 5.986 min Scan# 11

Delta R.T. -0.103 min

Lab File: VV039087.D

Acq: 15 Sep 2025 18:12

Instrument :

MSVOA_V

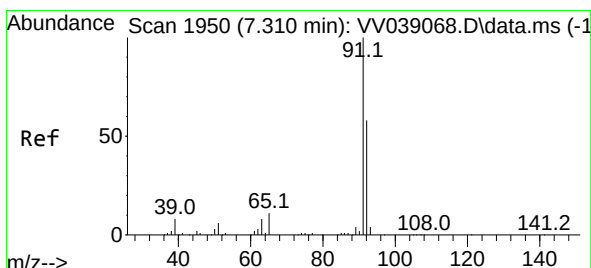
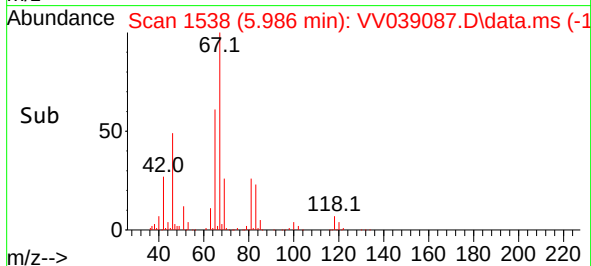
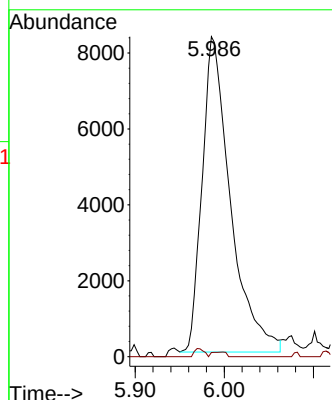
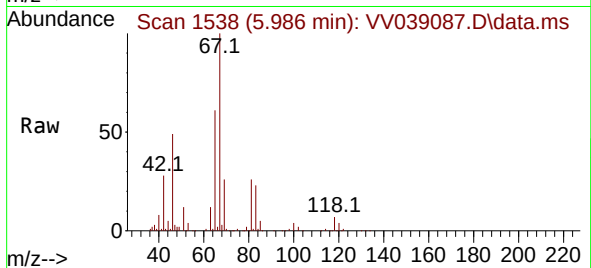
ClientSampleId :

Tgt Ion: 63 Resp: 18352

Ion Ratio Lower Upper

63 100

112 0.7 3.6 5.4#



#42

Toluene

Concen: 0.239 ug/L

RT: 7.326 min Scan# 1955

Delta R.T. 0.016 min

Lab File: VV039087.D

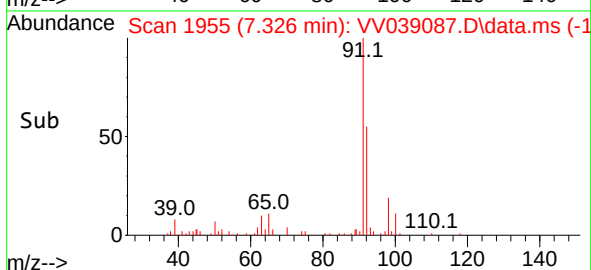
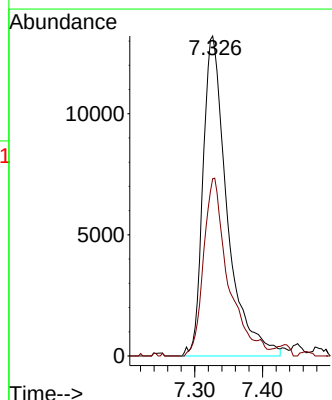
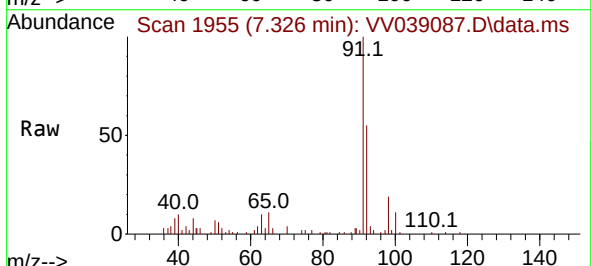
Acq: 15 Sep 2025 18:12

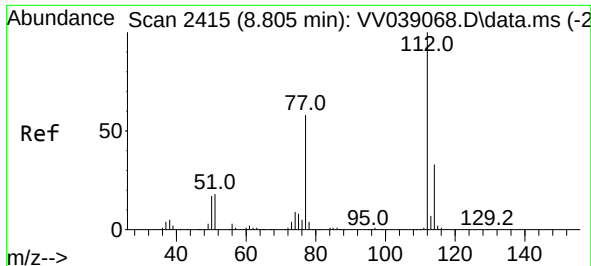
Tgt Ion: 91 Resp: 32695

Ion Ratio Lower Upper

91 100

92 55.4 40.5 75.1

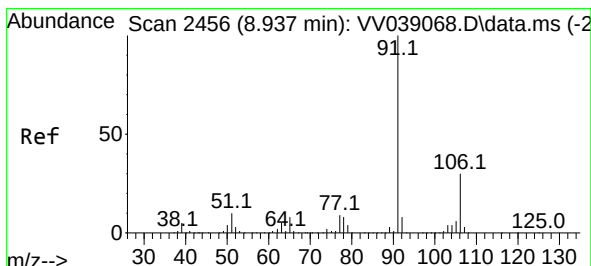
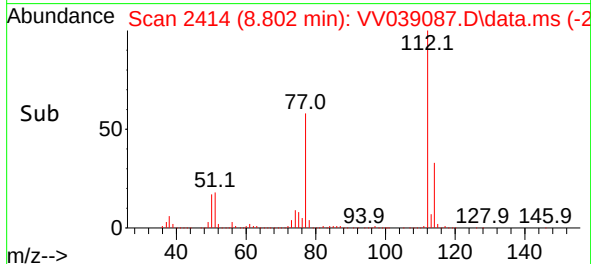
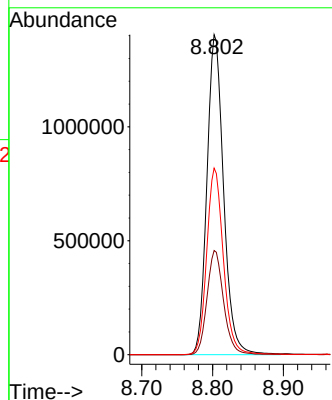
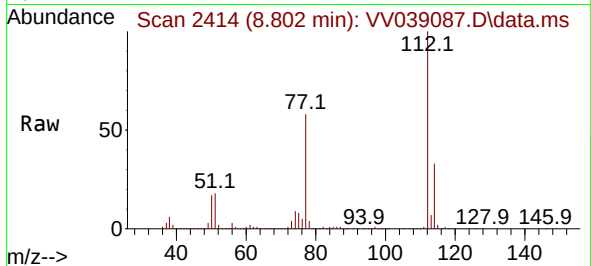




#51
Chlorobenzene
Concen: 26.010 ug/L
RT: 8.802 min Scan# 2415
Delta R.T. -0.003 min
Lab File: VV039087.D
Acq: 15 Sep 2025 18:12

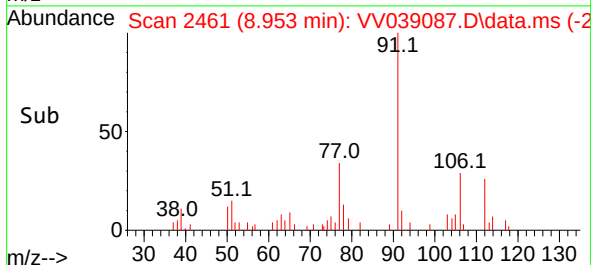
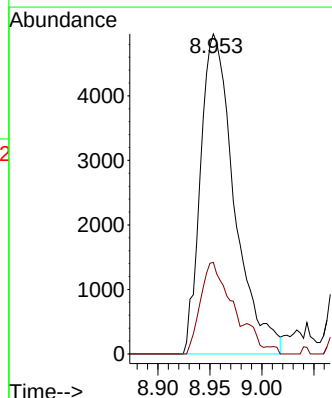
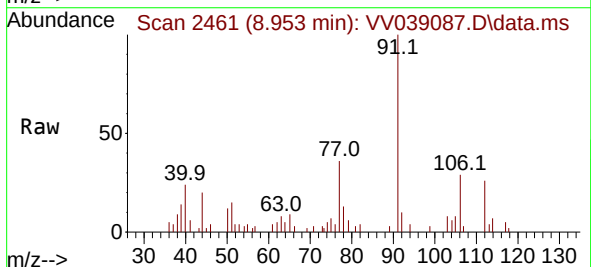
Instrument :
MSVOA_V
ClientSampleId :

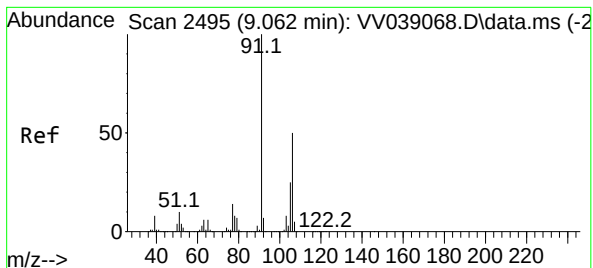
Tgt Ion:112 Resp: 2292643
Ion Ratio Lower Upper
112 100
114 32.6 23.0 42.6
77 58.3 46.6 69.8



#52
Ethylbenzene
Concen: 0.080 ug/L
RT: 8.953 min Scan# 2461
Delta R.T. 0.016 min
Lab File: VV039087.D
Acq: 15 Sep 2025 18:12

Tgt Ion: 91 Resp: 11242
Ion Ratio Lower Upper
91 100
106 28.6 20.8 38.6





#53

m,p-Xylene

Concen: 0.072 ug/L

RT: 9.088 min Scan# 21

Delta R.T. 0.026 min

Lab File: VV039087.D

Acq: 15 Sep 2025 18:12

Instrument :

MSVOA_V

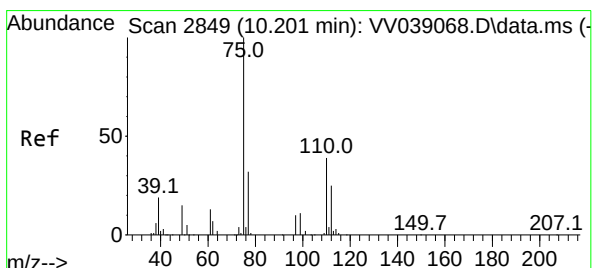
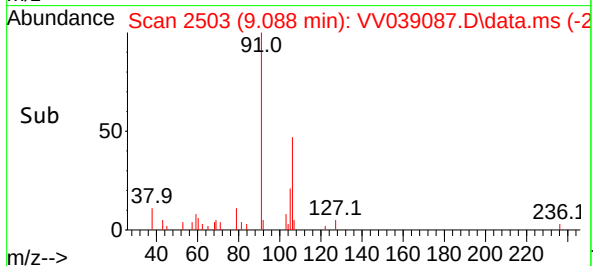
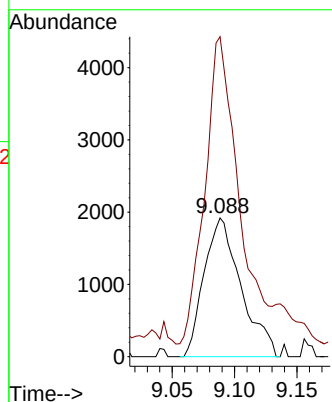
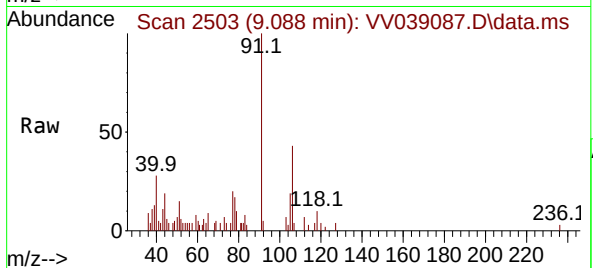
ClientSampleId :

Tgt Ion:106 Resp: 3946

Ion Ratio Lower Upper

106 100

91 230.6 140.1 260.3



#61

1,2,3-Trichloropropane

Concen: 40.131 ug/L

RT: 11.104 min Scan# 3130

Delta R.T. 0.904 min

Lab File: VV039087.D

Acq: 15 Sep 2025 18:12

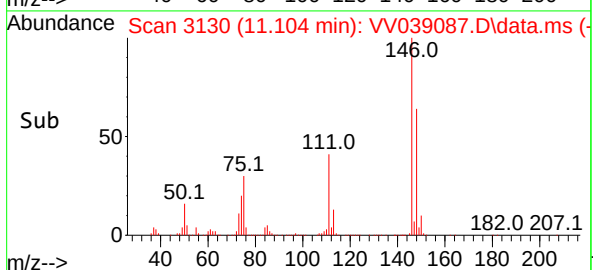
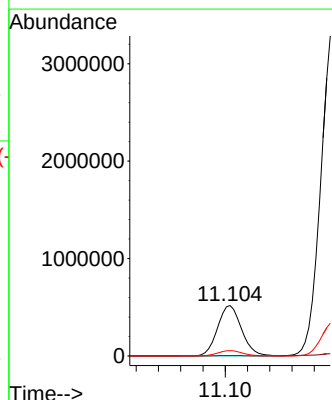
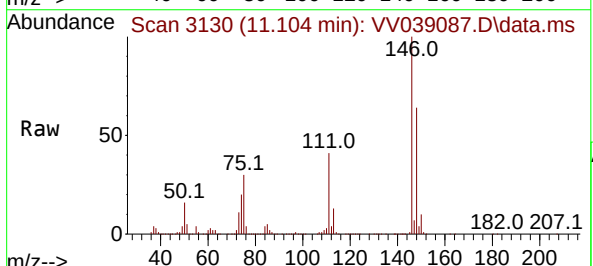
Tgt Ion: 75 Resp: 773641

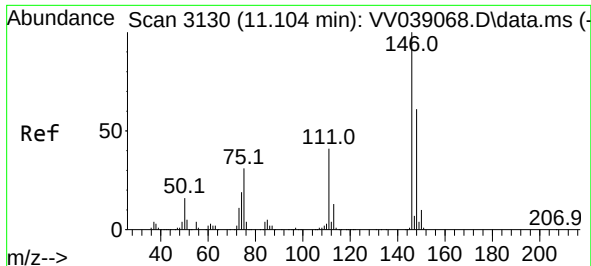
Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

110 10.9 31.0 46.4#

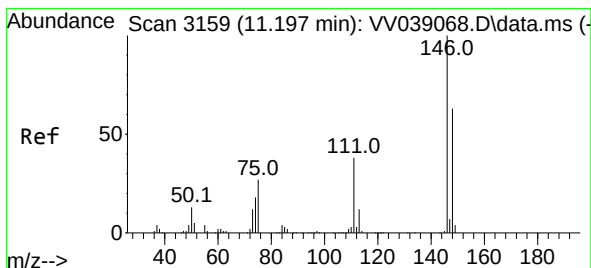
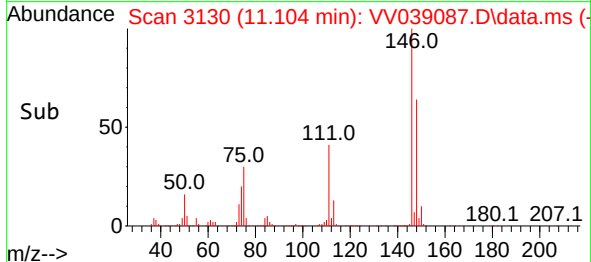
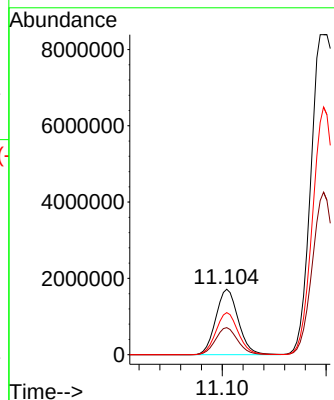
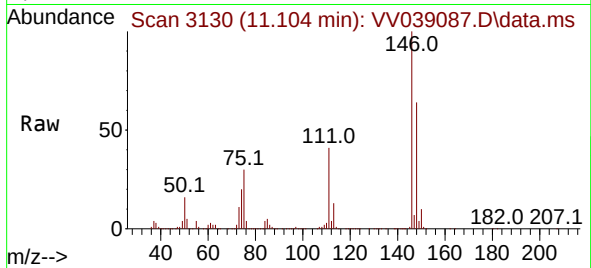




#64
1,3-Dichlorobenzene
Concen: 34.422 ug/L
RT: 11.104 min Scan# 3130
Delta R.T. 0.000 min
Lab File: VV039087.D
Acq: 15 Sep 2025 18:12

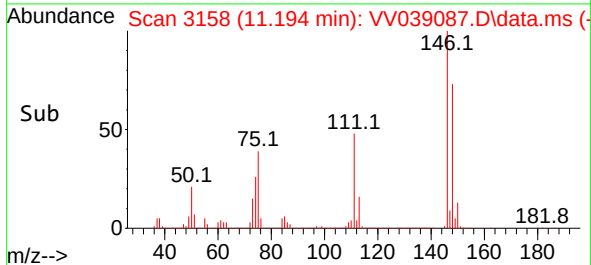
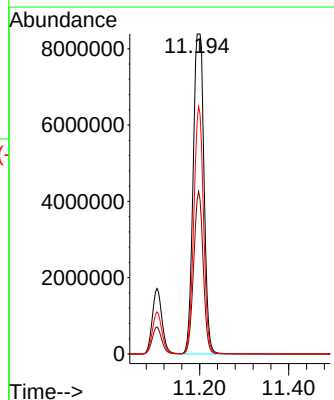
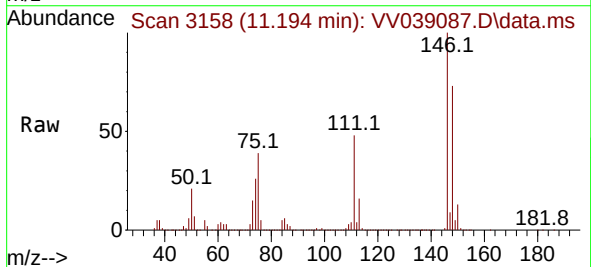
Instrument :
MSVOA_V
ClientSampleId :

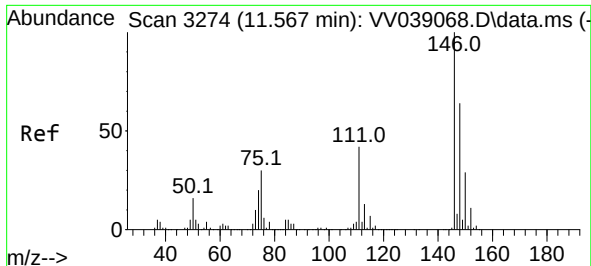
Tgt Ion:146 Resp: 2571208
Ion Ratio Lower Upper
146 100
111 41.2 28.3 52.7
148 64.3 42.9 79.7



#65
1,4-Dichlorobenzene
Concen: 184.619 ug/L
RT: 11.194 min Scan# 3158
Delta R.T. -0.003 min
Lab File: VV039087.D
Acq: 15 Sep 2025 18:12

Tgt Ion:146 Resp:14266022
Ion Ratio Lower Upper
146 100
111 48.2 27.2 50.6
148 72.6 43.8 81.4





#67

1,2-Dichlorobenzene

Concen: 2.823 ug/L

RT: 11.567 min Scan# 31

Delta R.T. 0.000 min

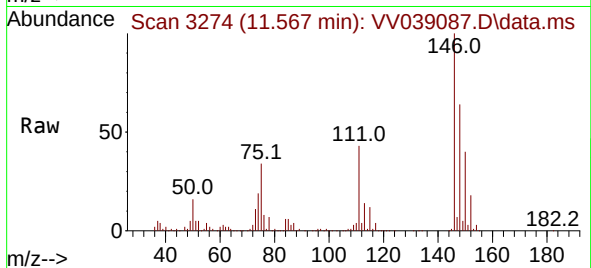
Lab File: VV039087.D

Acq: 15 Sep 2025 18:12

Instrument :

MSVOA_V

ClientSampleId :



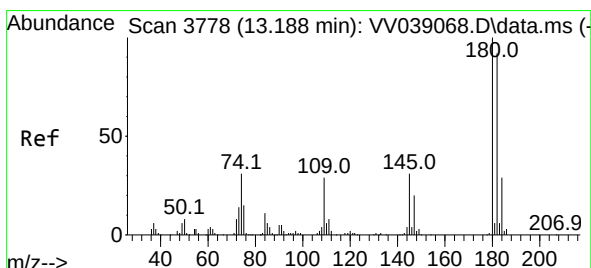
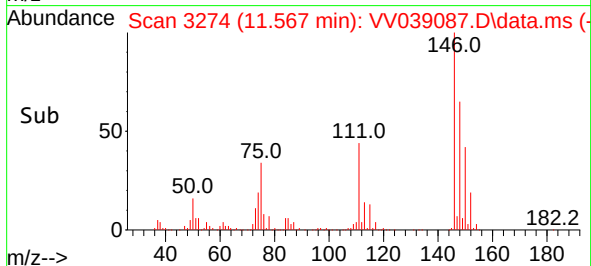
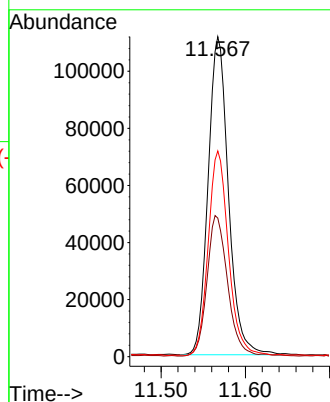
Tgt Ion:146 Resp: 186829

Ion Ratio Lower Upper

146 100

111 43.3 33.4 50.2

148 64.3 51.1 76.7



#70

1,2,4-trichlorobenzene

Concen: 0.540 ug/L

RT: 13.191 min Scan# 3779

Delta R.T. 0.003 min

Lab File: VV039087.D

Acq: 15 Sep 2025 18:12

Tgt Ion:180 Resp: 19899

Ion Ratio Lower Upper

180 100

182 96.0 73.2 109.8

145 30.7 25.0 37.4

